LEMORALDUM FOR: Nr. Leonard Unger

Chairman. Vietnem Coordinating

Committee

Bureau of Far Festern Affairs

Department of State Washington, D.C.

SUBJECT:

Location and Dignificance of Electric Foverplents in the Hanoi-Haiphong Fower Network of North Vietnem

references:

1. DDI 1091-65, 2 April 1965

2. Memorandum to the Secretary, from W.W. Rostow, Subject: An Electric Power Cut-Through in North Vietnam, dated 1 April 1965

- 1. Right thermal electric powerplants in the Hanoi-Wairhong power network serve about 90 percent of North Vietnem's industry and about 15 percent of its population. Effective intendiction of the electric power supplied by these eight powerplants would bring to a halt modern industry and rany numicipal services in the area served by the Hanoi-Maiphong network. The exact locations of the eight powerplants are known from earlial photography. Destruction of substations in the network would interrupt all but a small emount of the power supply for six months; destruction of boiler houses at the eight powerplants would cut off supply from these powerplants for, probably, a year or two.
- 2. The present memorandum does not discuss the operational problem of whether the installations of the Hanoi-Halphons electric power network can be hit in proper fashion, or the advisability of hitting those installations as a method of dissuading the North Victnessess from pursuing their cies in South Victness. These cubdects are not within the purview of economic intelligence. Annexes include a mep of the Hanoi-Emiphons power network and a table giving the location, capacity, and eignificance of the major posseplants in the notwork.

- 3. The industrial heart of North Vietnem is served by the Namoi-Haiphong power system. The basic system consists of a network of 110-kilovolt single circuit transmission lines centering on the Dong Anh substation (21-03-143; 105-50-41E) north of Hanoi (see Amnex A, Imp). The 110-ky network, built in the last five years, is superimposed on an existing 35 kv network built by the French. The network unites eight major powerplants that generate about Co percent of the power produced in North Victues. It serves areas containing about 90 percent of the industry of the country. Interdiction of the power supply from the powerplants, listed in Amex B, would force industry and services in the area to rely on scattered meall stend-by powerplants that could only supply areas immediately connected to them. Effective interdiction of the eight powerplants would not only bring modern industry in the area to a halt but would also cause difficulties at the coal port of Cem Fha that relies to a great extent on electric-powered equipment. (The port of Malphons is not extensively electrified.)
- 4. The Wong-bi, Mon-gay, and Thei Eguyan powerplants with about 46 percent of total grid capacity are located in relatively open areas, whereas the other five powerplants are generally in heavily populated areas.
- 5. The eight powerplants shown in Annex B contain TT percent of the total powerplant capacity of North Vietness, furnish about 80 percent of the electricity used by final consumers in the country, and about 90 percent of the electricity used by industry. About 90 percent of the power supplied to final consumers by the network is believed to be used for industry. (The term "final consumers" identifies all consumption except that by electric power generating plants. The term also excludes transmission losses.)
- 6. The major industrial consumers of electric power in the area are the Haiphong cement plent, coal mines in the Hon Cay area, the Thai Nguyen iron and steel plant, the Fan Binh cotton textile plant, the Hanoi machine building plant, and the paper, chemical, and fertilizer plants near Viet Tri. Each of these enterprises is the major, if not the only, producer of its kind in the country.
- 7. The most capily destroyed components of the Hanoi-Kalphong power network are the substations associated with the powerplants. These are in the open and are most associated with the powerplants. If they are destroyed the powerplant could still operate, but could supply only consumers who could utilize power distributed at generator voltage. Such users could consume power equivalent to only a small

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percentage of total present consumptions at best. Destroyed components in the substations would have to be replaced from Communist China or some other country, so there is no native capability to menufacture the required equipment. Neutralizing all the substations or power-plants and the Dong Anh substation concurrently would destroy practically all of the substation components (transformers, circuit breakers, heavy switchgear, etc.,) available in North Vietness. It would probably take a minimum of six months to obtain the equipment and rebuild the installations.

6. If it were decided to climinate the generating capability of the powerplants completely, the boiler houses would be the most appropriate component to use as a target. Destruction of the boilers could be accomplished nors easily than could destruction of the generators and would completely prohibit production of electricity at the plant. Econstruction would have to be carried out by nations other than North Victnam and would probably take at least a year, in case of partial destruction, and two years, in case of full destruction.

(5) CTTO E. GUIDI Assistant Director

Enclosures: (2)
Annexes A and B.

Distribution: (S-1489)
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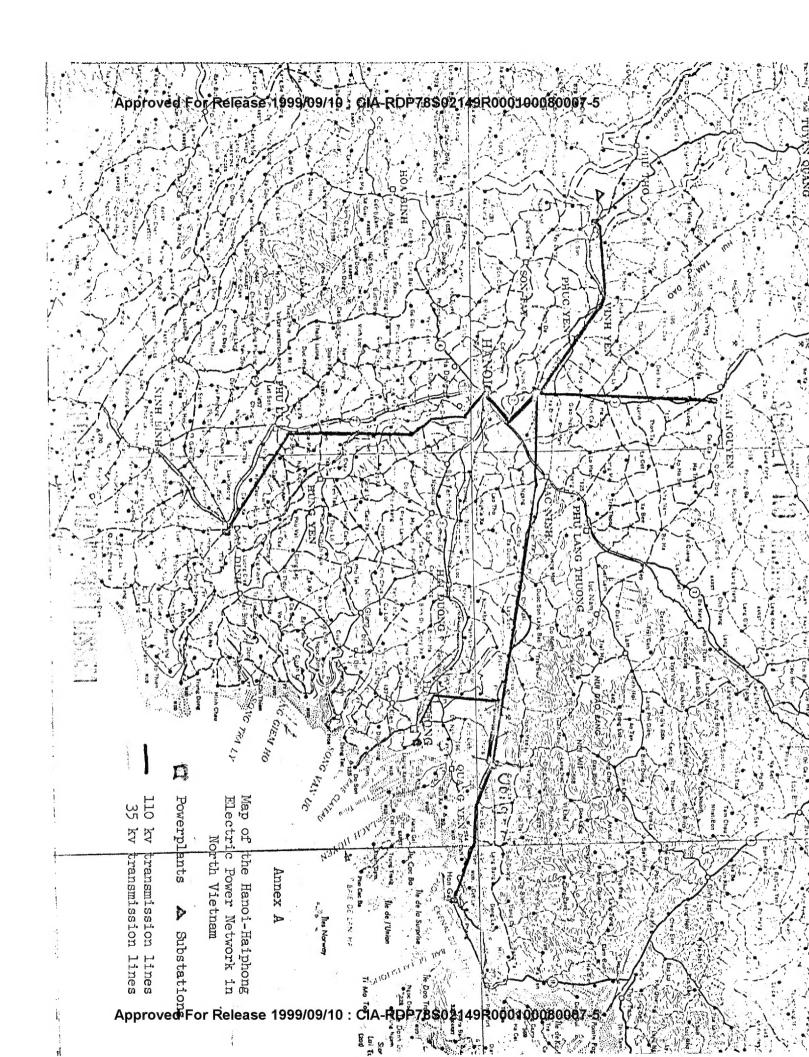
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